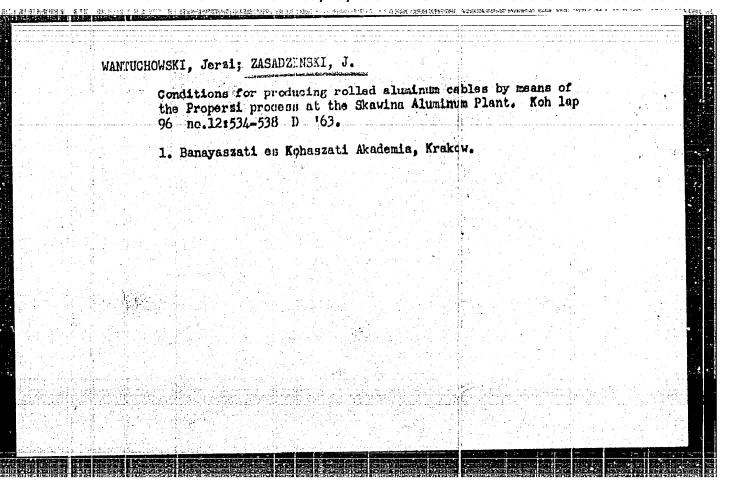
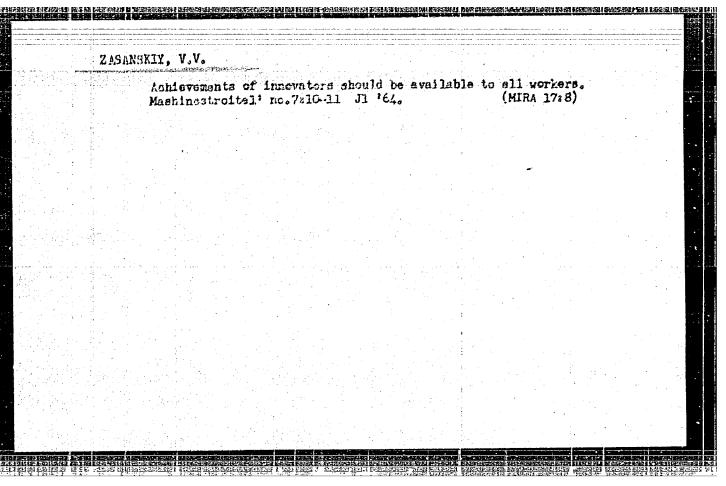
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MAJEWSKI, Janusz; ZASAUZIEN, Zdzielsu; FYSZ, Jozef

Smallpox in the Opole Frovince in 1963. Prwegl. epidem. 18
no.2:197-204 '64.

1. Z Wydzialu Zdrowia i Opieki Spolecznej Prezydium Wojewodzkiej
Rady Narodowej w Opolu i z Wojewodzkioj Stanji SanitarnoEpidemiologicznej.





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ýsen.	ACC NR: AP5028456. SOURCE CODE: 11R/0286/65/009/0:10/0019/0019	
	AUTHORS: Kinicvich, M. A.; Shneyerson, A. L.: Filippova, Zh. K.; Atroshchenko, V. PRG: none PITIE: Method for obtaining nitric acid. Class 12, No., 175492 Cannounced by State Scientific Research and Design Institute for the Nitrogen Industry and Products of The Country Products of State Scientific Research and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of State Scientific Research and Design Institute for the Nitrogen Industry and Products of Scientific Research and Design Institute for the Nitrogen Industry and Products of Scientific Research a	
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	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 19	
	TOPIC TAGS: nitric acid, nitrogen oxide, nitrogen compound	
13 (g) 17 (g)	ABSTRACT: This Author Certificate presents a method for obtaining nitric acid at a pressure of 4—9 atm by absorbing gaseous nitrogen exides in water in an absorption tray-type column. To obtain 68—80% nitric acid, liquid exides of nitrogen are introduced into the column at a point below the formation of 50—63% nitric acid. The reaction may also be carried out by introducing air into the column at a point below which the liquid exides of nitrogen are introduced.	
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ZASCHO	HEPIN, A.N., kand.tekhn.nauk	ة بده مخاصص والمتحدث والمتحروب والمتحروب والمتحروب	type a transporter a transporter and transport	
	Vibration as an effective dor. 24 no.2:12-13 F 61. (Vibrators)	method for mixing (Mixing mach	(MLKA 14:3)	
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				. 13

Korshak, V. V., Mozgova, K. K.,

sov/79-23-10-48/60

AUTHORS:

TITLE:

Zasechkina, A. P.

The Enfluence of Low-Molecular Compounds on the Photochemical Destruction of Polyethylene Terephthalate (Vliyaniye

nizkomolekulyarnykh veshchestv na fotokhimicheskuyu.

destruktsiyu polietilentereftalata)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 78, Nr 10,

pp 2847 - 2853 (USSR)

ABSTRACT:

In the paper under discussion, the conversion process of polyethylene terephthalate (Lavsin) under the influence of the full irradiation by a lamp PRK .- 2 on this polyester, as well as of the closer spectral region within the limits of 300-320 mm, was investigated. At the same time, an attempt was made to determine the influence of certain low-molecular compounds of various structures on the conversion process of polyethylene phthalate on full ultraviolet irradiation. The samples of this compound available to the authors did not yield fully uniform absorption spectra; they differed from those already published, due, probably, to the

Card 1/2

The Influence of Low-Molecular Compounds on the Photo- SOV/79-2840-48/6c chemical Destruction of Polyethylene Terephthalatic

difference in the composition of the polyester (Ref 6). The absorption spectra of the compounds enumerated are listed in the preceding report (Ref 7). The changes in the properties of the irradiated foils were determined from the changes in molecular weights, mechanical properties, and spectral characteristics. It was found that the decomposition of polyethylene terephthalate on full ultraviolet irradiation by the above mentioned lamp occurs far more intensively than on irradiation at a wave length of 300-320 mu. The addition of low-molecular organic compounds to the polyethylene terephthalate affects its decomposition process. The results obtained harmonize with those arrived at under identical conditions on the decomposition of polystyrene. There are 6 figures, 1 table, and 8 references, 2 of which are Soviet.

SUBMITTED: Card 2/2 August 5, 1957

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RORSHAK, V.V.; MOZCOVA, K.K.; SHKOLINA, M.A.; NACDASHVA, I.P.;

HERESTERY, V.A.; Prinimali uchastiye: TECOROVA, Yu.V.;

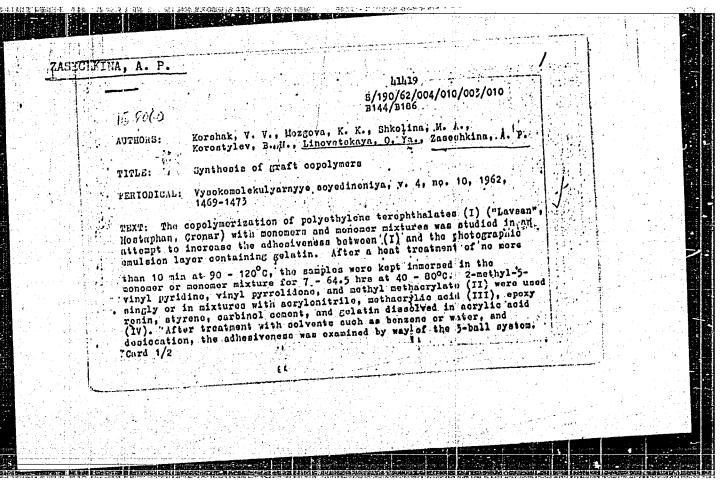
ZASECHKINA, A.P.; VOLKOVA, A.I.; SAZONKINA, H.T.

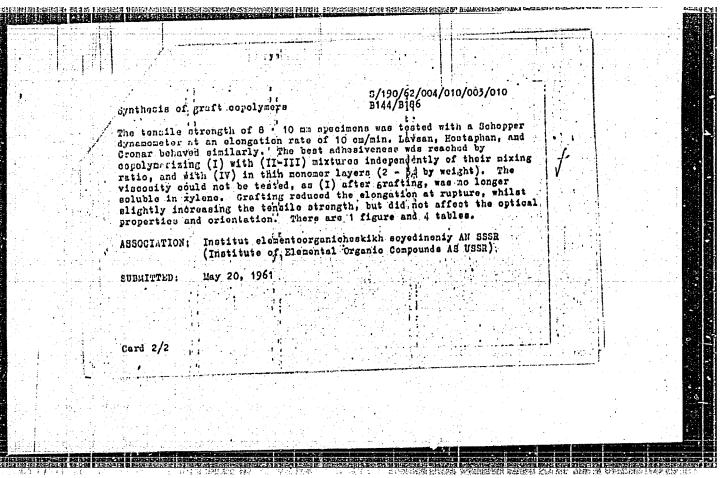
Preparation of graft copolymers. Part 12. Vysokom.socd. 5

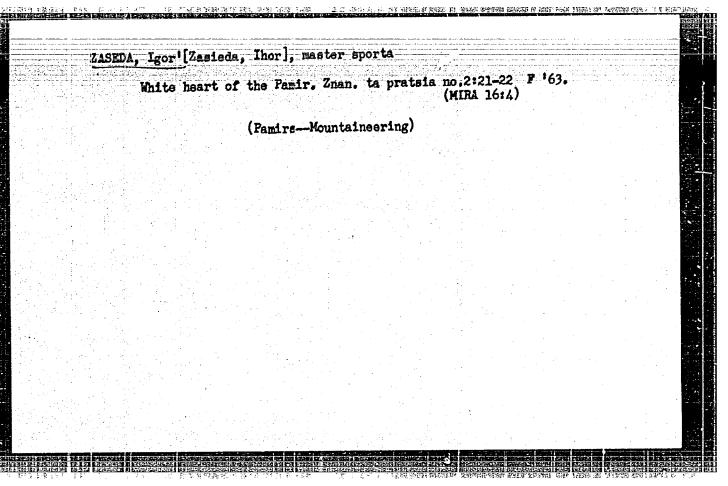
no.2:171-175 F '63. (MIRA 16:2)

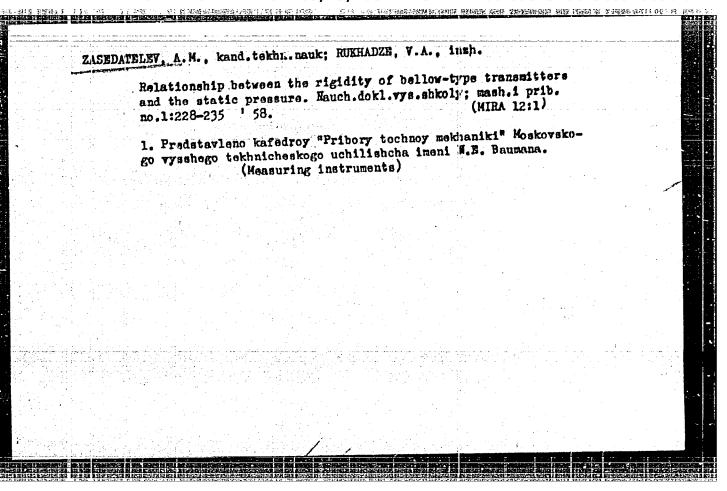
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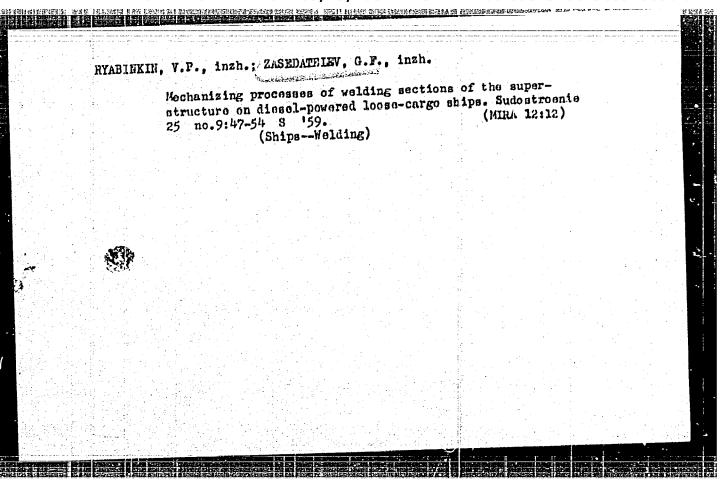
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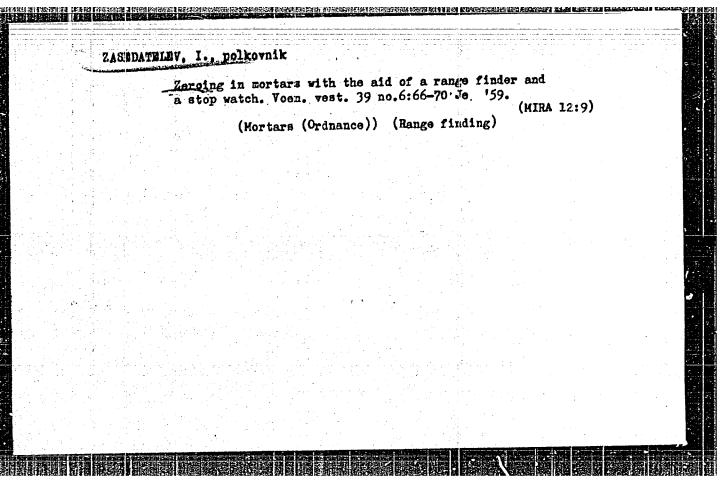








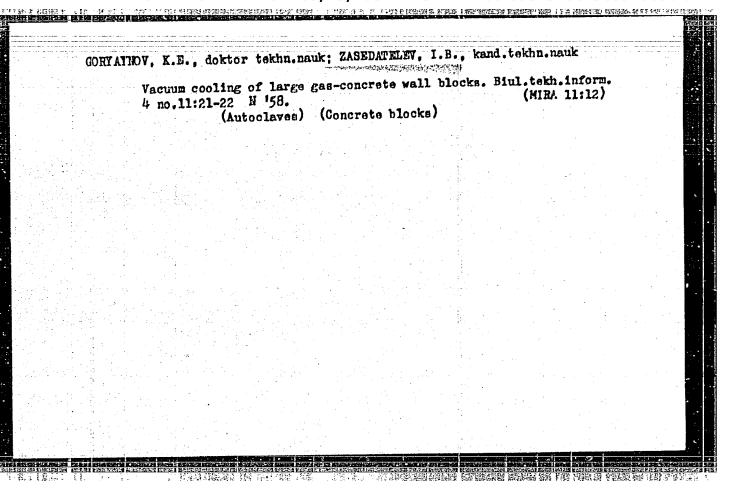


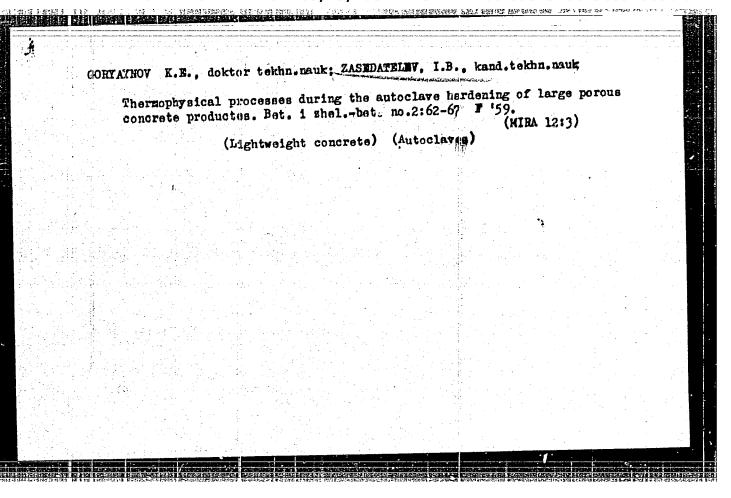


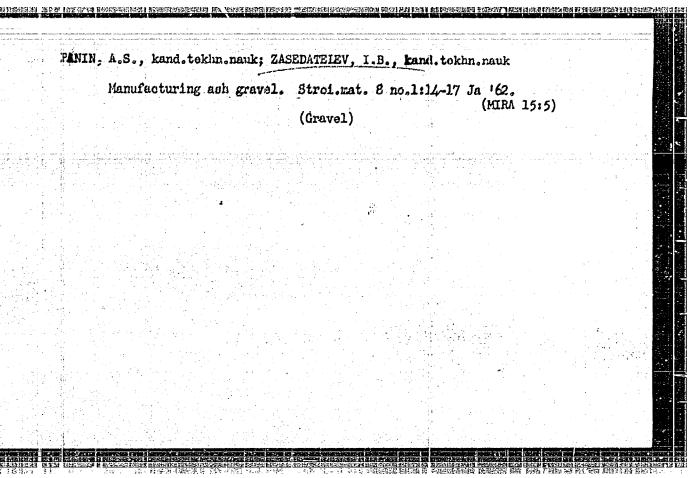
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Z.	SEDATELEV, I., gwardii polkovnik.		
	Position area survey of a mortar battery on tire. Voen.vest. 36 no.8:61-65 Ag '56.	he basis of its (MLRA 9:10)	
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ZHUKOV, Dmitriy Vasil'yevich; kand. tekhm. nauk; ZASEDATELEV, Igor'
Borigovich, kand.tekhm. nauk; PALEVSKIY, S.A., nauchnyy red.;
SHIROKOVA, G.M., red. izd-ve; NAUMOVA, G.D., tekhm. red.

[Heating and drying of buildings and industrial structures erected in the winter]Obogrev i sushka zdanii i promyshlennykh sooruzhenii, vozvodinykh v zimnikh usloviiakh. Moskva, Gosstroiizdat, 1962. 154 p. (MIRA 15:8)

(Heating) (Drying apparatus)

ZHUKOT,	D.V., kand.tekhn	nauk; ZASEDAT	ELEV. I.B.			
	Electric heating conditions. Prom	g of reinforced stroi. 37 no heating)	concrete flu .8:47_49 Ag (Flues	59.	g under winter (MIRA 12:11)	
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SOV/19-58-6-633/685

AUTHORS:

Goryaynov, K.E., Zasedatelev, I.H., Avrutin, M.L., Volchek, I.Z., and Lizogub, A.L.

TITLE:

A Method of Producing Concrete, Silicate and Other Products (Sposob izgotovleniya betonnykh, silikat-

nykh i drugikh izdeliy)

PERIODICAL:

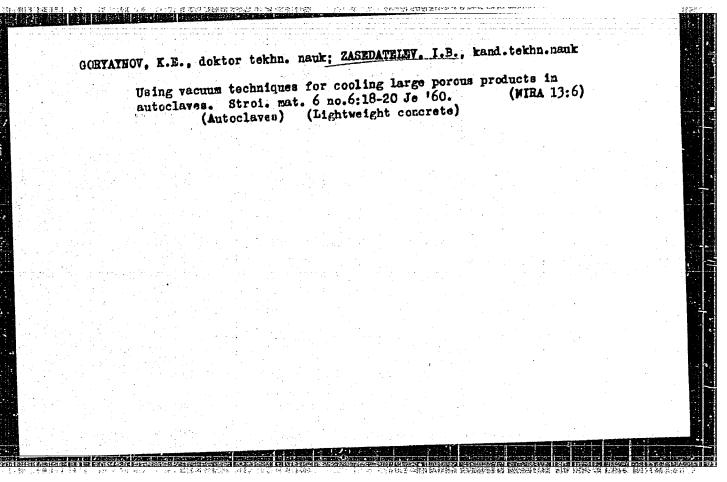
Byulleten' izobreteniy, 1958, Nr 6, p 140 (USSR)

ABSTRACT:

Class 80a, 910. Nr 113746 (587315 of 2 Dec 1957). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. Producing concrete, silicate and similar products in autoclaves by steaming under pressure, and preventing detrimental temperature stresses from appearing in the products as well as speeding up the work process by producing a vacuum in the autoclave

after the process.

Card 1/1



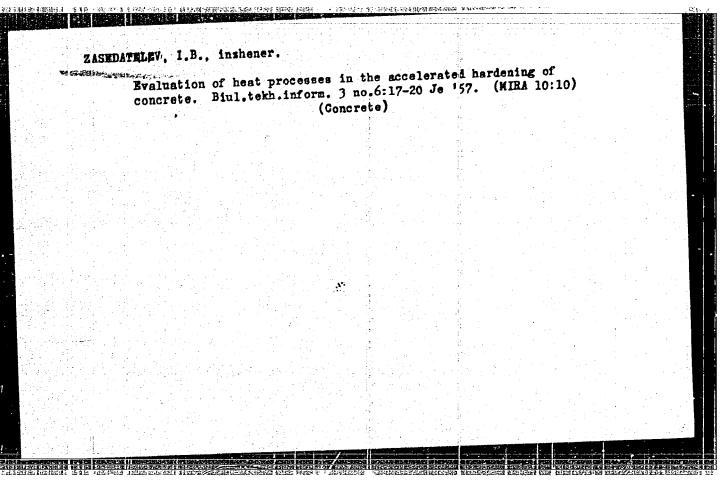
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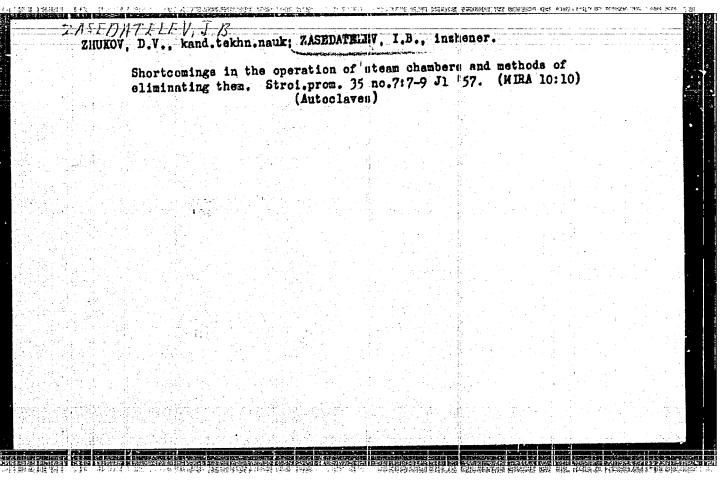
ZASEDATELE, T.B.

QUETATHOV, K.H., doktor tekhn. nauk; YEVIMOV, A.D.; VULCHEK, I.Z., kand.
tekhn. nauk; AVEDTIN, N.L., inzh.; LIZOGUB, A.A., inzh.;
ZASEDATELE, I.B., inzh.

Large wall blocks made of autoclave hardened lightweight concrete.
Blul. tekh. inform. 4 no.2:1-5 F '58. (MIRA 11:3)

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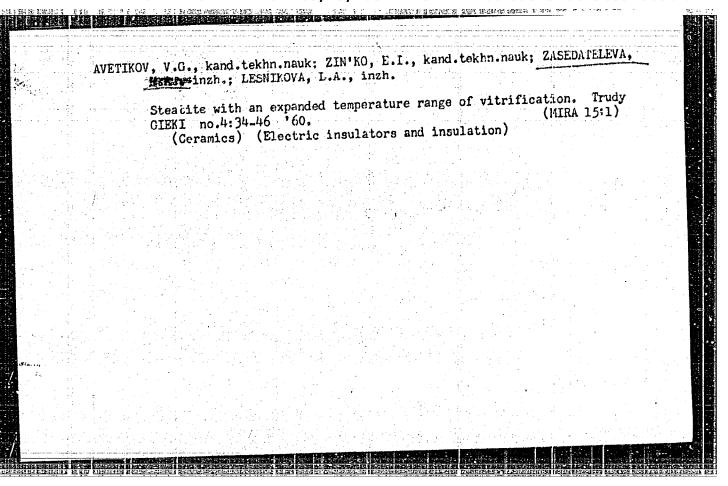




ZAMEDATELEV, I.B., Cand Tech Sci-(diss) "study of thermo-physical	
process upon hardoning of concrete in the portodic action chambers."	
Mos, 1958. 15 pp (Los Inst of Engineers of Mining Construction of Macro the Control (M. 25-58, 113)	

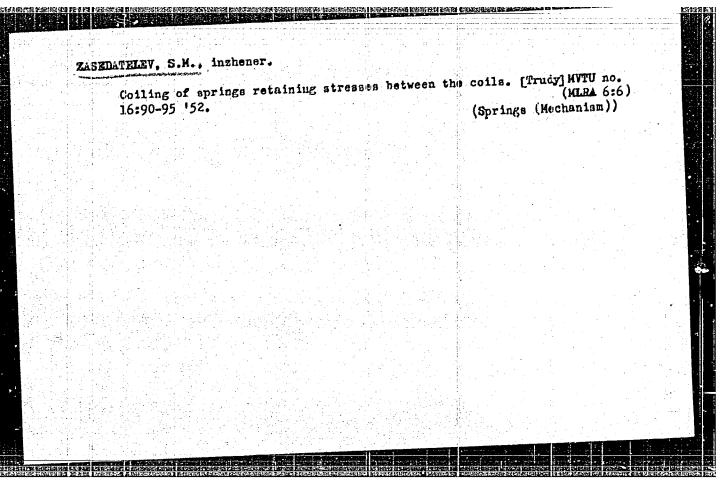
GORYAYNOV, K.E., doktor tekhn.nauk; YEFIMOY, A.D.; VOLCHEK, I.Z.; AVRUTIN., M.L.; ZASEDATZLEY, I.B.; HECHAYEV, G.A., red.1zd-va; PUL'KINA. Ye.A. tekhn.red. [Large aerated-cement wall blocks; practices of the Main Administration for Housing and Public Construction in the city of Leningrad] Krupnye gazobetonnye stenovye bloki; iz opyta Glavleningradstroia. Pod red. K.E.Goriainova. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit, i stroit. (MIRA 13:1) materialam, 1959. 102 p. (Leningrad-Building blocks) (Lightwelight concrete)

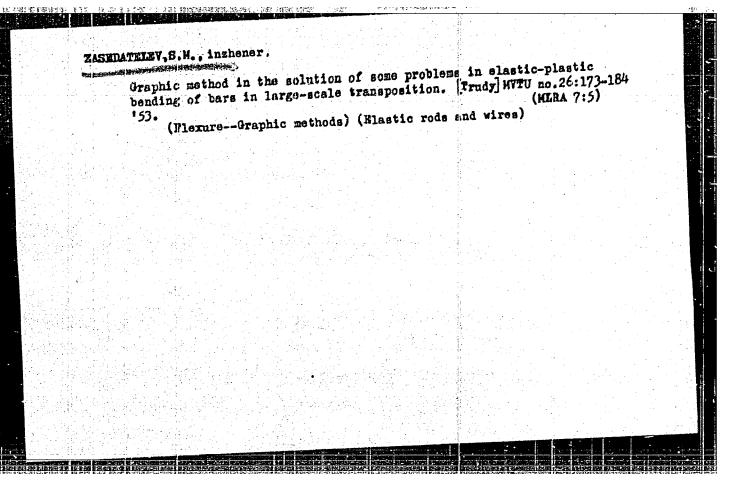
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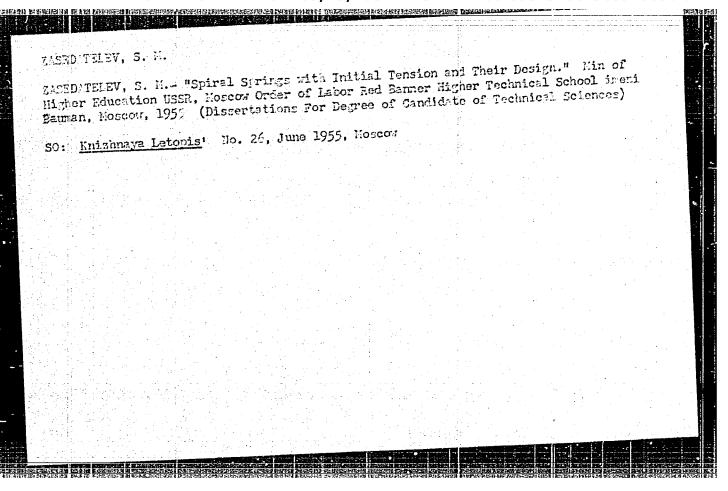


"Investigation and Construction of a New Type of Apparatus with a Force Compensation by Pressurized Air."

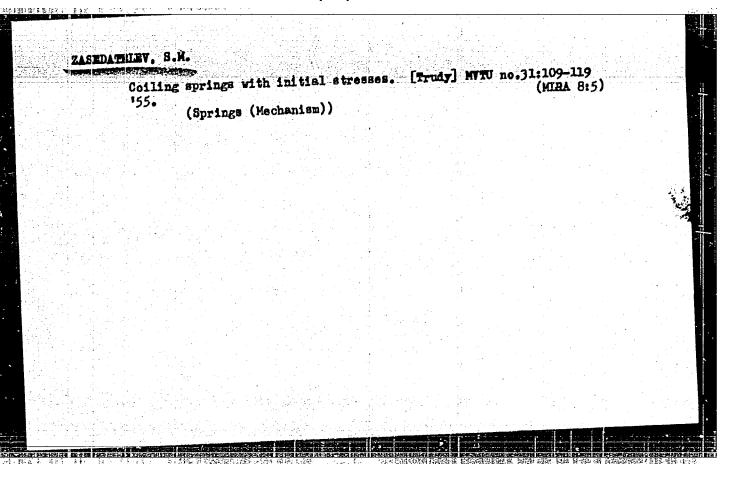
Report presented at the Scientific Seminar on Pneumo-Hydraulic Automation, Rebort presented at the Inst. for Automation and Remote Control (Iat), Acad. Sci. USSR 28-29 May 1957, at the Inst. for Automation and Remote Control (Iat), Acad. Sci. USSR Avtomatika i Tolemekhanika, 1957, vol. 18, No. 12, pp. 1148-1150, (author SEMIKOVA, A. I.)

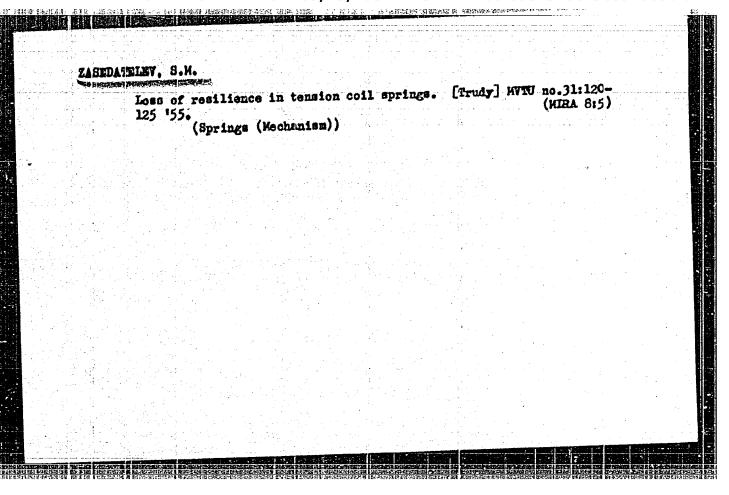


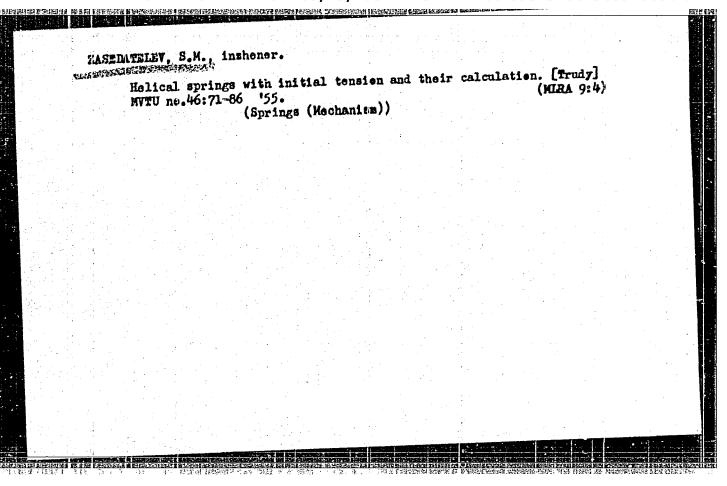




ZASEDATELEV, S.M. ANDEEYEV, L.Te., kandidat tekhnicheskith nauk; BIDESMAN, V.L., kundidat tekhnicheskikh nauk; BOYARSHINOV, S.V., kandidat tekhnicheskikh nauk; VOL'MIR, A.S., doktor tekhnicheskikh nauk; DIMERSENG, P.M. kandidat tekhnicheskikh nauk; ZASELATELEV, S.H., inzhener; KINASOSHVILI, R.S., doktor tekhnicheskikh nauk, professor; KOVALENKO, A.D..: MARUSHIN, V.M., kandidat tekhnicheekikh nauk MALININ, H.N., kandidat tekhnicheskikh nauk; PONOMARKY, S.D., doktor tekhnicheskikh nauk; PRICOROVSKIY, H.I., doktor tekhnicheskikh nauk; TETEL BAUM, I.M., kandidat tekhnicheskikh mauk; UMANSKIY, A.A., doktor tekhnicheskikh nauk, professor; FEDDOS'YEV, V.I., doktor tekhnicheskikh nauk; SERENSEN, S.V., redaktor; TRAFEZIH, I.I., kandidat tekhnicheskikh nauk, redaktor; KARGAHOV, V.G., inzhener, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor. [Mechanical engineer's mammal; in 6 volumes] Spravochnik mashinostroitelia; v shesti tomakh. Ind.2-e, ispr. i dop. Hoskva, Gos. nauchno-tekhn.isd-vo mashinostroit. lit-ry, Vel.3, 1955. 563 p. (HLRA 8:12) (Mechanical engineering)



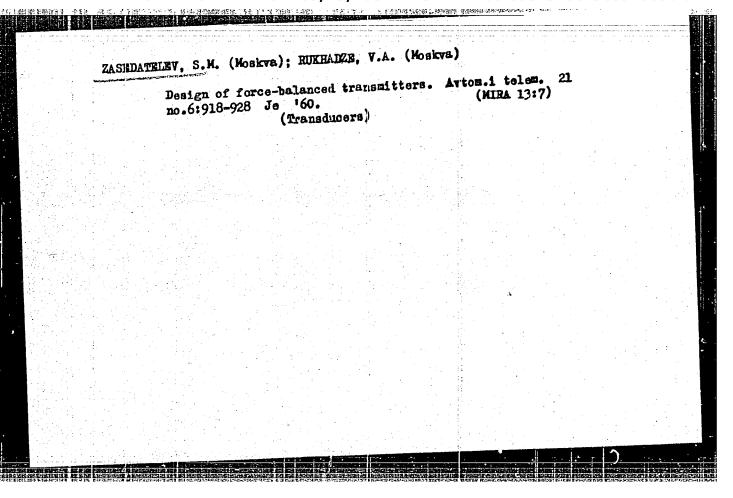




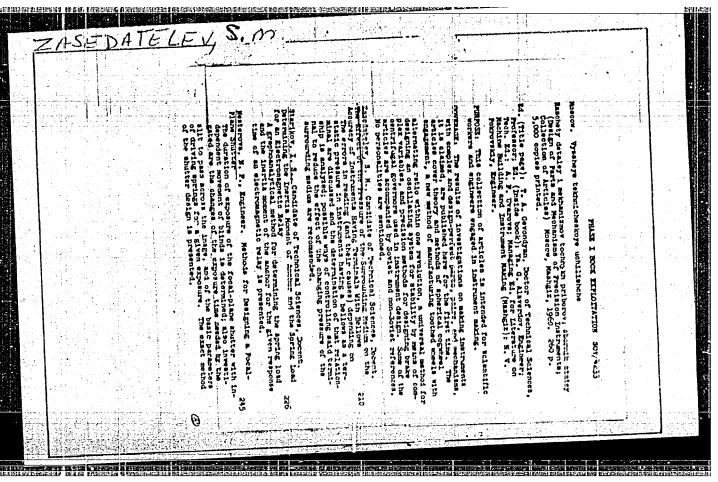
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SOV/124-58-10-11826

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 151 (USSR)

Zasedatelev 8: M. AUTHOR:

Computation of Extension Springs Wound With an Initial Tension T!TLE:

(Compression of Loops) [Raschet pruzhin rastyazheniya, navitykh

s nachal'nym natyazheniyem (mezhvitkovym davleniyem)]

PERIODICAL: V sb.: Vopr. proyektir., izgotovleniya i sluzhby pruzhin.

Moscow-Leningrad, Mashgiz, 1956, pp 59-85

ABSTRACT:

Various possibilities of application of springs with compressed loops in machines and instruments are examined. Critique of the existing arbitrary recommendations on prestressing of springs is given, and a method, derived by the author, permitting selection of the degree of prestressing in accordance with conditions of stability, is presented. Deformations which occur in the wire during winding operations and which ensure a residual torque are analyzed by considering the successive stages in the manufacture or springs. The magnitude of the initial tensile stress is computed on the basis of the mechanical properties of the material in accordance with the theory on small elastic-plastic deformations

Card 1/2

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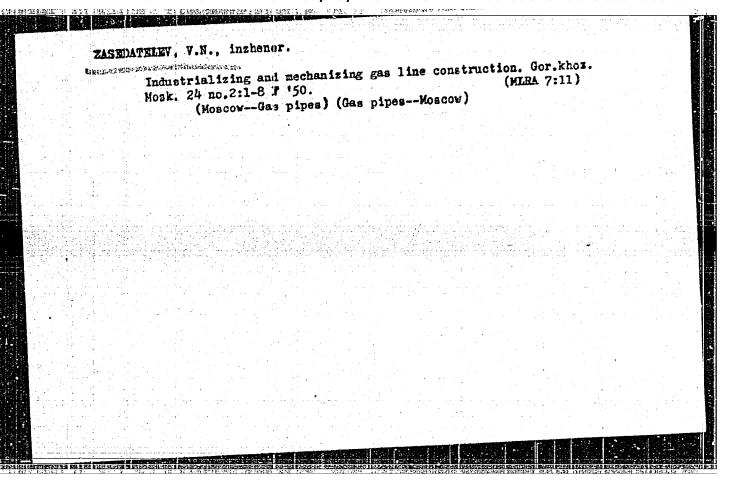
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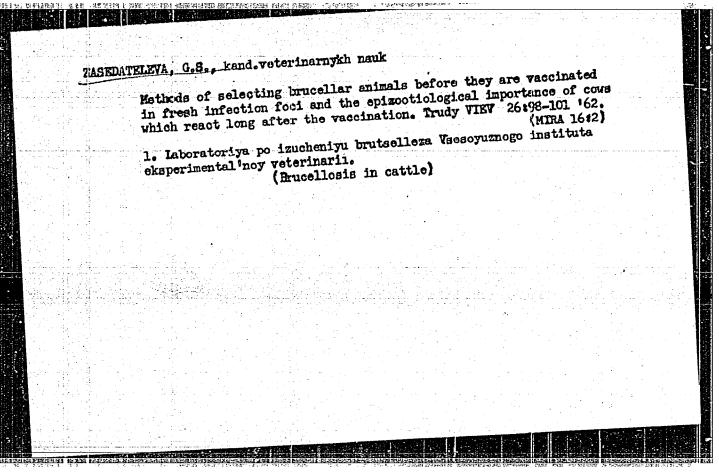
Computation of Extension Springs Wound With an Initial Tension

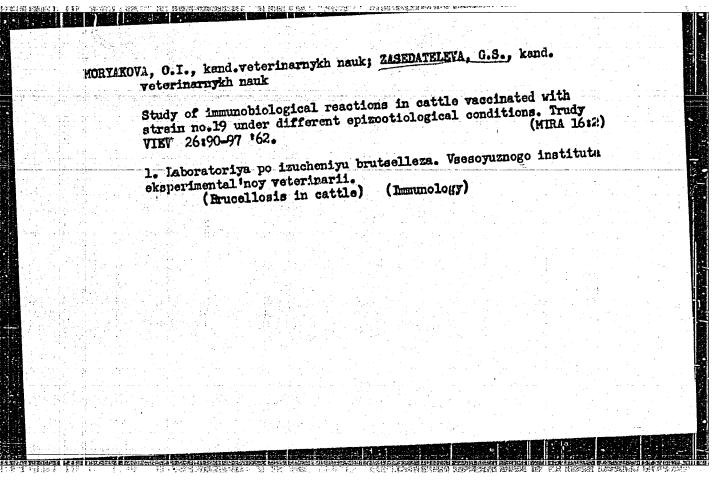
as applied to bending and twisting of a round rod. The computation of the design strength of the springs is based upon torsional stresses and the corresponding yield point. Investigations were also performed in order to determine how the initial nonlinear portion of the stress strain curve of a spring is affected by such factors as deformation of end loops, variation in loop-compression stresses between individual loops, and deviation of the line of action of the load from the geometrical axis of the spring.

V. A. Bykov

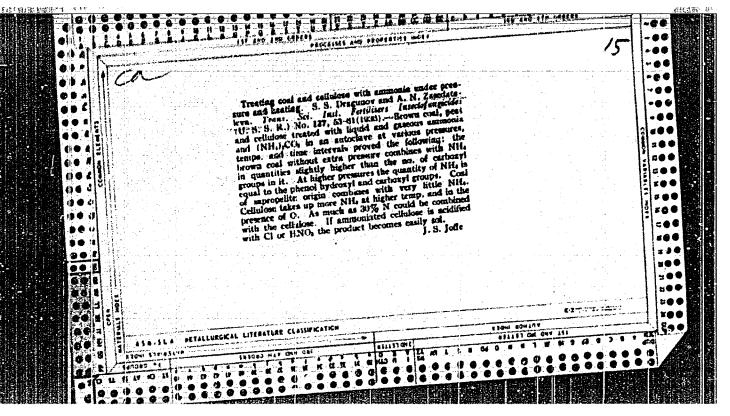
Card 2/2

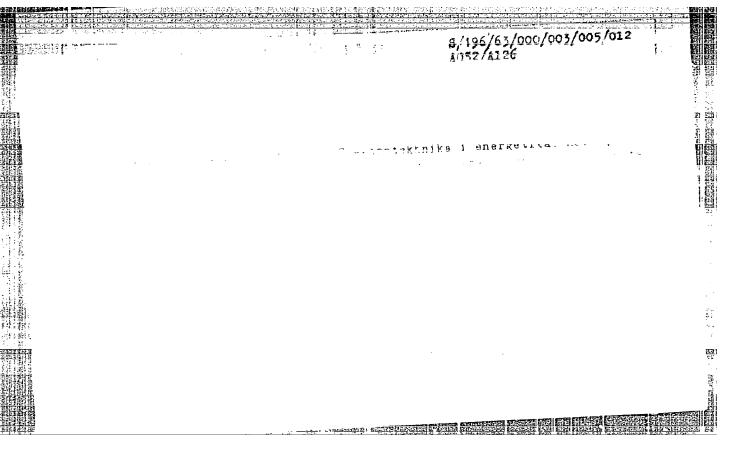






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Kuraina, D	, S.; Zasedatoleva, G. S.; Mikhaylov, H. A.; Pinigin, A. F.; Merinov, 10vškaya, Ya. A.; Davydov, N. N.	
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ORG: none		
TITLE: B	ucellosis cultures isolated from deer in the northern Soviet Union	
SOURCE: V	eterinariya, no. 9, 1966, 15-18	
	brucellosis, brucella culture, disease vector, deer, animal disease	
AESTRACTI	Brucellosis is widely distributed among deer in the northern part of the Soviet Union. In general they serve as carriers and epizootic reservoirs of brucellosis in cattle and sheep. The most typical species is Brucella abortus, with the other	•
	two common types rard or absence A louren types was away	. 1
	two common types rare or absent. A fourth type, Br. roughfart, differing from the others, was elso isolated. [WA-50; CBE No. 12]	-
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SUB CODE:	two common types rare or absent. A fourth type, Dr. 120, differing from the others, was also isolated. [WA-50; CBE No. 12]	





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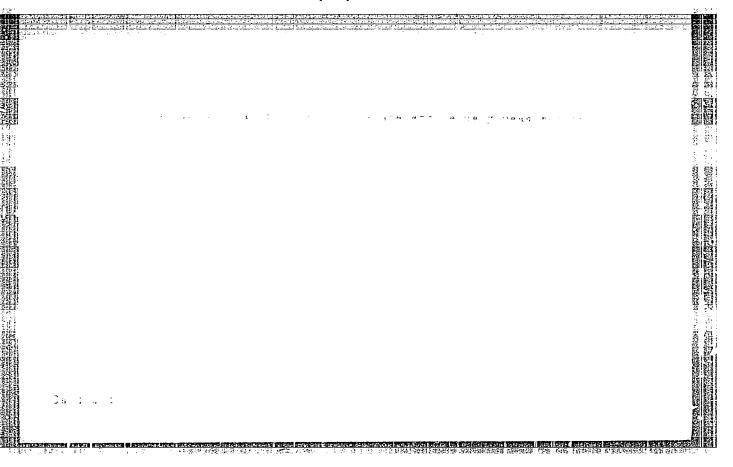
Card 2/4

paking interval to just con and the second transfer of properties of attack to just condition of magnests and chalk gave no post-bies of steatiles. A combined addition of magnests and chalk gave no post-bies of steatiles. A combined addition of magnests and chalk gave no post-bies of steatiles. A combined addition of magnests and consists and the results with 4% believed that and 5% pagnetites its 1,5% kg/cm had steatilts with 4% believed that and 5% pagnetites to 30%

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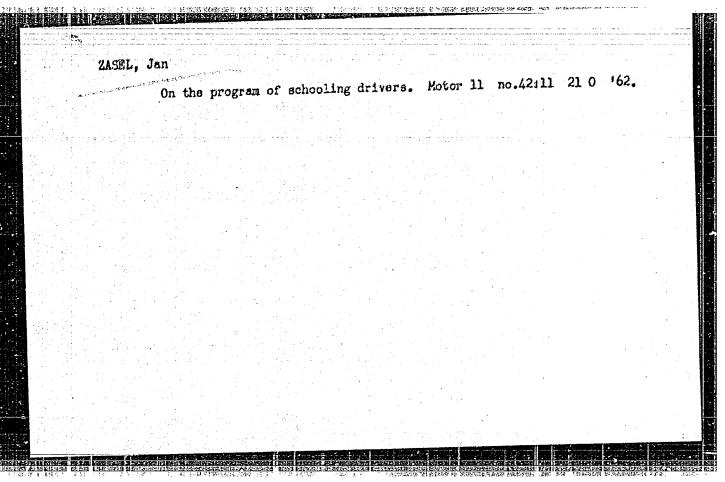
8/072/60/000/03/007/023 Zin'ko, E. I., Avetikov. V. C., B003/B008 AUTHORS: Zasodateleva, N. A. High-frequency Ceramics on Wollastonite Basis TITLE: Steklo i keramika, 1960, Hr 3, pp 25-29 (USSR) PERIODICAL: Wollastonite has lately been used increasingly for electroceramics owing to its favorable electric properties. In the ABSTRACT: Soviet Union there are larger wollastonite deposits in the following regions: in the region north of the Balkhash Lake, in the "Western Dzhangalyk" Mines in Northern Tadzhikistan, where wollastonite accumulates as barren rock and goes into hackfilling, in the Aldan region of the Yakutakaya ASSR; according to information from the Institut geologii AN Uzbekskoy SSR (Institute of Geology of the AS of the Uzbekskaya SSR) in the Nakpay deposit, but also in other deposits of Uzbekistan: Lyangar, Koytash, Ingichka, Chatkal'skiy Range. Wollastonite from Dzhangalyk was investigated. The most important impurities are epidote, diopside and sphene. The material was cleaned twice (Table 2) with the separator 138-SE at the laboratoriya elektriche skikh i magnitnykh metodov obogashcheniya, Institut gornogo dela AN SSSR (Laboratory for Electric and Magnetic Dressing Methods of the Institute of Mining AS USSR); analyses are given in table 3. A ceramic mass Card 1/2

High-frequency Ceramics on Wollastonite Basis

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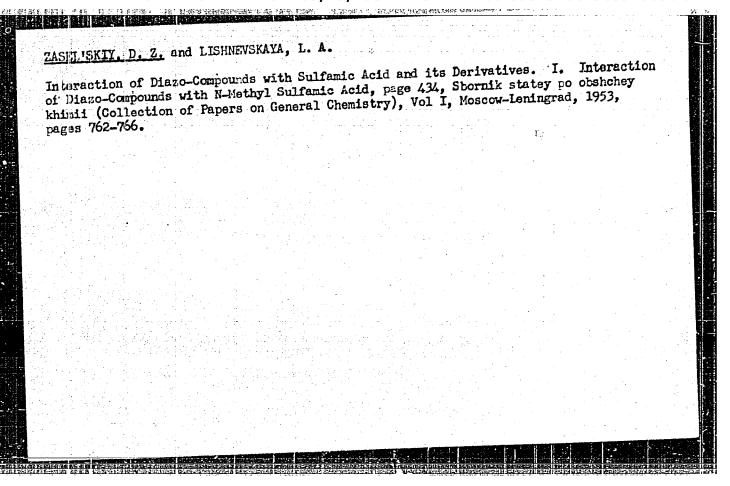
was produced with an addition of 10% barium carbonate and 20% clay from Chasov Yar; the electric properties were investigated (Fig 1). Since wollastonite changes practically irreversibly into pseudowollastonite, at about 1250° with a change in structure, it was the main thing to lower the firing temperature. Four masses were produced: VD-6 with 5% lead boron glass, VD-7 with 5% ascharite, VD-8 with 10% quartz sand and VD-9 with 3% boracite glass. The investigation with the petrographic microscope was carried out by E. I. Medvedov-skaya (Figs 2-4). The firing temperatures are 1120, 1210, 1290, and 1300°. For wollastonite from Dzhangalyk the change into pseudowollastonite occurs at 1290°. There are 4 figures and 5 tables.

Card 2/2



ZASELISKIY, D. A. and LISHNEVSKAYA, L. A.

Interaction of Diazo-Commounds with Sulfamic Acid and its Derivatives. II. Study of the Properties of Aryl-1-Methyl-3-Triazone Sulfo Acids-3, page 446, Sbornik statey po obshehey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1953, pages 762-766.



S/032/60/026/008/043/046/XX B020/B052

AUTHORS:

Marayev, S. Ye. and Zaselyan, B. N.

TITLE:

News in Brief

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol. 26, No. 8, p. 1029

TEXT: The authors report on a new method of producing boats of pure alumina for the zone melting of aluminum. A mixture of alumina (90-95%) and aluminum powder (5-10%) for radio valves is carefully mixed, an aqueous solution of starch and molasses (2:1) is added and carefully mixed again. Sample rods are then pressed from this mixture. They are sintered for 5-6 hours at 1200°, and cooled down together with the furnace. Holes are then drilled into the rods by a milling machine with welded alloy cogs. The boats are sufficiently strong and endure a considerable number of melts without polluting the aluminum.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy alyuminiyevo-magniyevyy institut (All-Union Scientific Research Institute of

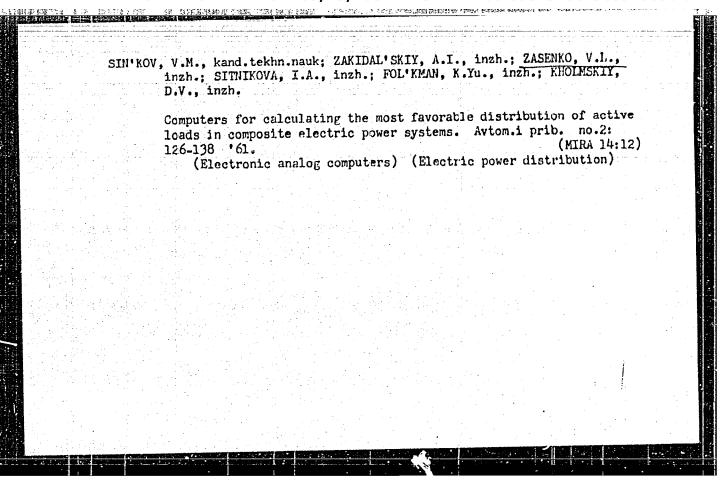
Aluminum and Magnesium)

Card 1/1

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Mittion: Ushakova, S. Yei.; Zasolyan, B. H.; Kokoreva, I. I.	
NO: none	
50URCE: Avtomaticheskaya svarka, no. 3, 1966, 77	
TOPIC TAGS: diffusion welding, vacuum welding, copper, steel, electron microscope,	
ANDTRACT'S Vacuum diffusion weights as one of the and and acknowled steel	
The experimental SDVU-o installation was used for wolding. The wolding of the specimens was first studied on an MIN-SM metallographic microscope through the specimens was first studied on an another studied for a more detailed to the studied of the specimens was first studied on an another studied for a more detailed to the studied of	
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produced by diffusion welding in a vacuum is difficult to determine at small produced by diffusion welding in a vacuum is difficult to determine at small produced by diffusion welding is barely distinguishable at magnifications. For instance, incomplete welding is barely distinguishable at	:
magnifications. For instance, ancompletes of the impossible to find the 150-2007, but become clearly visible at 600-2007. It is impossible to find the joint in copper specimens at low magnification, the boundary appears only at	
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ACC NR. AF6018662	
600-900X. The diffusion layer is very similar in structure to the grain	
600-900X. The diffusion layer is very shallar in studying speci- boundaries in copper. Thus, low magnifications (150-300X) when studying speci- mens made up of homogeneous materials may result in erroneous conclusions on the	
is a transition layer. The dillusion layer has a tructure of conner although somewhat	
lenger. In two copper specimens, the diffusion layer is some- continuation of the copper grains in one specimen. The diffusion layer is some-	
layer of a copper-copper joint 18 3 or 4 times as broad a	
from the diffusion layer to the base metal in instruction the quality of vacuum from 600-900 to 10,000-15,000 are optimum for determining the quality of vacuum	
diffusion welding. Or g. art. has: 2 figures. /IPE	
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D'YAKOV, A.M., inzh.-mekhanik; LEKHIKOYNEN, M.M.; ERAIL'CHUK, P.L., kand. tekhn.
nauk, red.; ZASENTSEV, i.i., inzh., reu.

[Technological process of the overhauling of the GAZ-51,
GAZ-63-63A, GAZ-93, FAZ-651-652 motor vehicles] Tekhnologicheskii protess kapital'nogo remonta avtomobilei
GAZ-51, GAZ-63-63A, G-Z-93, FAZ-651-652; metodicheskoe
GAZ-51, GAZ-63-63A, G-Z-93, FAZ-651-652; metodicheskoe
posobie. Dushanbe, Tadzhikskii sol'khoz. in-t, 1963. 126 p.

(MIRA 17:9)

ZAWADZKI, Zbigniew A.; TOPOISKA, Paula; ZASRPA, Ryszard

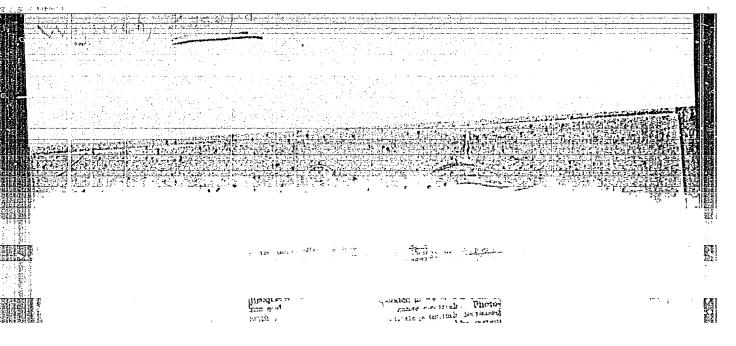
Henoglobin, hematocrit & erythrocyte count in blood donors. Polski tygod. lek. 13 no.50:2010-2016 15 Dec 58.

1. Z Kliniki Hematologicznej; kier. prof. dr med. W. Igwkowicz. Instytut Hematologii; dyr. doc. dr med. A. Trojanowski oraz ze wszystkich cojewodzkich stacji krwiodawstwa. Adres: Warszawa 10, Krucza 51 m. 7. (BLOOD TRANSFUSION

erythrocyte count, hematocrit & hemoglobin values in donors (Pol))

(KRYTHROCYTES

count, hematocrit & hemoglobin values in blood donors (Pol))

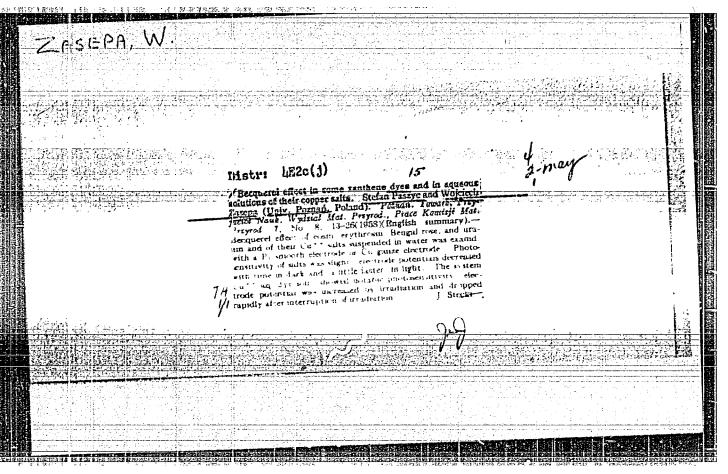


ZASEPA, Wojciech

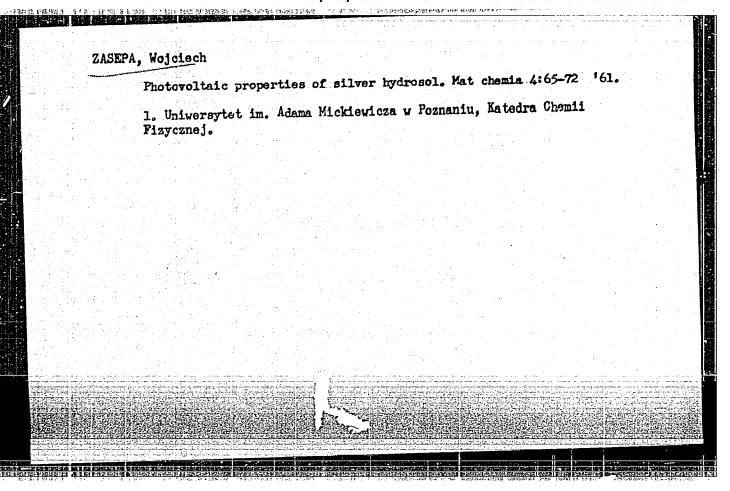
Preparation and characteristic of silver hydrosol. Mat chemia 4:55-64 '61.

1. Katedra Chemii Fizycznej, Poznan.

Photovoltaic properties of silver hydrosol. Mat chemia 4:65-72 '61.
1. Katedra Chemii Fizycznej, Poznan,



Method of obtaining and characteristic of silver hydrosol. Patchemia 4:55-64 '61. 1. Uniwersytet im. Adama Mickiewicza w Poznaniu, Katedra Chemii Fizyesnej.	ZASEPA	, Wojalech
l. Uniwersytet im. Adama Mickiewicza w Poznaniu, Katedra Chemii Fizycznej.		Method of obtaining and characteristic of silver hydrosol. Mat chemia 4:55-64 '61.
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f fur hats. (MIRA 15:11)

RAKCOON, W.G., inzh.; KUZNETSOV, Ye.I., inzh.; SEOSYFEVA, A.N., starshiy tekhnik; USTICHERO, R.D., starshiy tekhnik.
Metal shell molds. Lit. proizv. no.10:32-53 0 '60. (MIRA 13:10) (FoundariesEquipment and supplies)

Mamifacture of sh Stal! 21 no.10:89	sped steel ing(is by 05-899 0 '61. (Continuous casting (Steel ingots)	TW) The second of the CWTT	นี้ 14:10)	
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S/133/60/000/011/018/023 A054/A029

AUTHORS:

Verbol'skaya, Ye.D., Zasetskiy, G.F., Isakov, I.V., Engineers,

Khlebnikov, A.Ye., Doctor of Technical Sciences

TITLE:

Experience in the Treatment of Molten Steel With Rare-Earth

Metals

PERIODICAL: Stal', 1960, No. 11, pp. 1030-1033

In order to obtain more information on the possibilities of improving the plastic properties of chrome-nickel-mclybdenum alloys by the addition of rare-earth metals, tests were carried out (with the cooperation of Z.B. Vagonov and V.I. Belyayev) by treating these alloys with a mixed netal containing 40-50% cerium, 15-20% lanthanum, 10-20% other rare-earth netals and 5-10% iron. The test steel was melted in an induction vacuum furnace with a magnesite crucible of 150 kg capacity, the charge consisted of the magnesite and stable and synthetic iron, the malting temperature was 1 550-1 59000. The armon steel and synthetic iron, the melting temperature was 1,550-1,580°C; the alloying elements were added without affecting the vacuum after a certain interval for the degasification of the metal. Pouring took place in an argon atmosphere at a pressure of 600-700 mm Hg, the test ingots were 140 x 140 mm and weighed about 70 kg. Investigations to determine the influence of the rare-earth metal additives on the sulfur content and on the quantity of non-Card 1/3

S/133/60/000/011/018/023 A054/A029

Experience in the Treatment of Molten Steel With Rare-Earth Metals

metallic inclusions revealed that under the effect of rare earth elements the non-metallic phase still forms in the liquid steel before the precrystallization period. The composite inclusions which are formed during this period coagulate easily and float on the surface of the casting. During this floating period these inclusions can be captured in the crust zone of the casting by the growing crystals. The total amount of sulfur in these agglomerations is about 0.18-0.19%, while the liquid steel before treatment with mixed metal contains about 0.024-0.030% B and the finished metal about 0.003-0.016% S. The sulfur residue in the metal decreases in proportion with the increase in the quantity of the mixed metal added, and the longer the metal is kept liquid, the larger is the amount of sulfur inclusions which can be removed from the casting. The quantity of oxide-inclusions also decreases in the rare-earth metal alloyed steels, irrespective of the melting method; only the amount of aluminates increases to some extent. The tests carried out to determine the mechanical properties of the new type steel showed that rare-earth metal alloyed steels of the same composition but cast in open and in vacuum furnaces had practically the same values as regards strength and tenacity, in cast and in Card 2/3

S/133/60/000/011/018/023 A054/A029

Experience in the Treatment of Molten Steel With Rare-Earth Metals

rolled condition as well; the steel melted in a conventional furnace has a tenacity-1.5-2.0 times higher than the same type of steel deoxidized by 0.07% Al; when molted in a vacuum furnace, the increase in tenacity is 2-2.5 times greater compared with the Al-treated steels; the steel with a C-content of 0.40% shows the same plastic properties in melted and in rolled condition as the chrome-nickel-molybdenum steels containing 0.30%C and produced in openhearth furnaces according to the direct reduction process. In the rolled steels containing 0.40% C and alloyed with rare-earth metals no anisotropy in the mechanical properties can be observed at tempering, both as regards the sorbite and the martensite structure. The laboratory tests were confirmed by industrial scale tests in the UZTM. The samples taken from various (upper and lower) parts of the sheets rolled from the testsingots (with a C content of 0.41% containing chrome-nickel-molybdenum deoxidized in the ladle by 350 E/t Al and containing 2 kg/t mixed metal) displayed remarkable chemical homogeneity. Practically no segregation of carbon, sulfur and phosphorus could be observed. From the tests it is assumed that rare-earth metal alloyed chromenickel-molybdenum steels can be used in machinery constructions for replacing rolled or hammered machinery parts. There are 2 figures, 6 tables and 3 Soviet references.

CIA-RDP86-00513R001963910006-6 "APPROVED FOR RELEASE: 03/15/2001

18(5)

SOV/128-59-3-12/31

AUTHOR:

Smolenskiy, S.I., Guglin, N.N., Zasetskiy G.P.,

Provornyy, A.K. and Tyutev, V.A., Engineers

TITLE:

Steel Molds for Large Steel Castings

PERIODICAL:

Liteynoye Proizvodstvo, 1959, Nr 3, pp 23-26 (USSR)

ABSTRACT:

Metal dies for casting of large steel cast shapes are made from steel or cast iron. As demonstrated by the experiments the cast iron dies are unserviceable within short periods. Against that steel dies show far better properties. A method has been worked out to pour large shell-type castings of several tons of weight by means of the permanent die method. Special designs had to be built for this method. Pouring of the metal is done in five steps and in accordance with the design of the casting and in accordance with the technology of the die shape. The experimental method showed that within a certain time interval all types of the die designs are distorted and that hair line cracks appear on the wor-

Card 1/3

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Steel Molds for Large Steel Castings

king surface. Consequently the quality of the experimental dies is judged by way of two characteristics:
a) According to the number of pourings possible till to the point of repair, when the cracks have to be

b) To the point when the exact dimensions are lost and must be re-machined. Several tests have been made to study the properties of the metal dies, to establish the suitable shapes and the necessary thickness of the walls. By means of tables, and photographs the results of the tests in connection with the contents of sulphur, of carbon, and in connection with the mean thickness of the walls and the point of formation of hair line cracks are published. Conclusion: Best results will be achieved with metal dies having a wall thickness of 150 to 170 mm. The steel used for the die should not have more than 0,10% carbon and not more than 0,025% of sulphur

Card 2/3

Steel Molds for Large Stiel Castings SOV/128-59-3-12/31

Permanent Metal Dies From Steel for the Casting of Large Steel
Casting Shapes

contents. There are 7 graphs and 2 photographs.

GUREVICH, S.M.; DIDKOVSKIY, V.P.; NOVIKOV, Yu.K.; FILORIK'YAN, B.K. (Moskra);

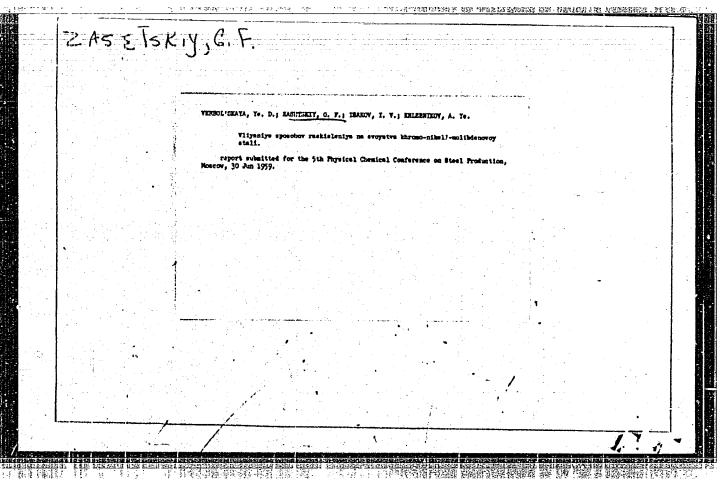
ZASETSKIY, G.F. (Moskva); KRAVCHEMKO, V.F. (Moskva); NOVIKOVA, A.A. (Moskva)

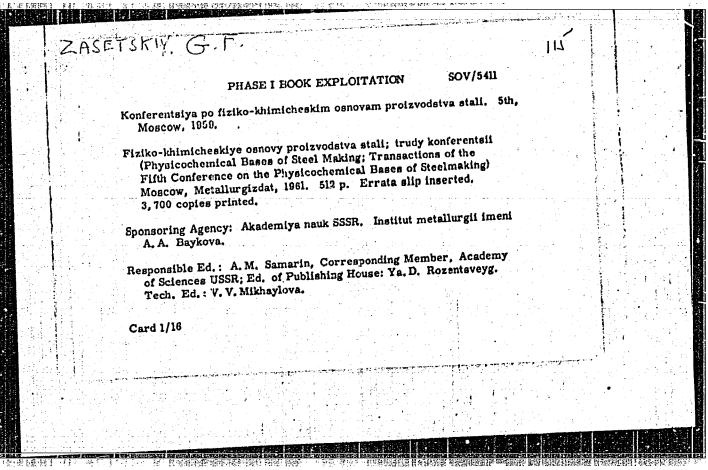
Properties of commercial titanium shd alloys of the OT4-type prepered by electric slag melting. Avtom. Svar. 16 no.4:27-33 Ap '63.

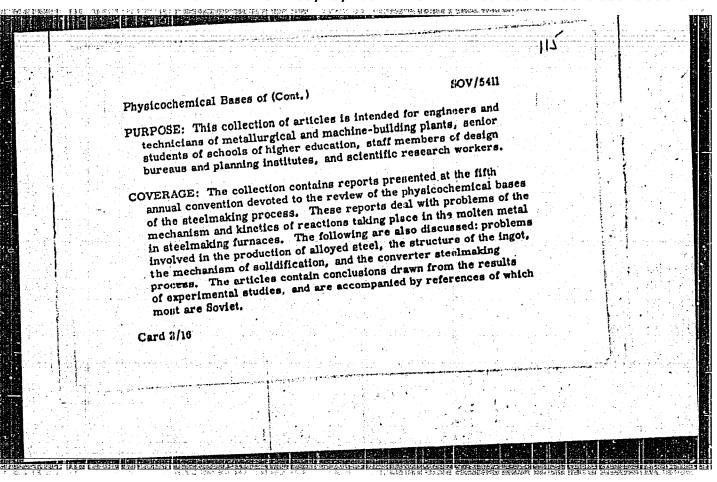
(MIRA 16:4)

1. Institut elektrosvarki im. Ye.O.Patona An UkrSSR (for Gurevick, Didkovskiy, Novikov).

(Titanium—Electromstallurgy) (Zone melting)







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Physicochemical Bases of (Cont.)	V/5411		I
(Zlatoust Metallurgical Plant) A.K. Petrov, Engineer, O.M Chekhomov, G.A. Khasin, A.I. Markelov, I.S. Kutuyev, R. Kolyasnikova, and Ye.D. Mokhir).	i.		
Paton, B. Ye., B. I. Medovar, Yu. V. Latash, B. I. Maksimovic and A. F. Tregubenko. Electroslag Remelting of Alloyed Sicels and Alloys as an Effective Means for Improving Their Quality	h. 118		
Verbol'skaya, Ye. D., G.F. Zasetskiy, I.V. Isakov, and A. Ye. Khiebnikov. Various Methods of Treating Molten Chromium-Nickel-Molybdenum Steel and Their Effect on its Properties	127		
Yedneral, F.P. Application of Complex Deoxidizers for the Pupose of Shortening the Reduction Period of Electrometting of Contractional Steels	13:		
Yedneral, F.P. The Change in the Bath Composition of an Ele	ctric-		
Card. 7/16			
	CW-COLL MATERIAL WAS IN	A CONTRACTOR OF CHECK	

18(5,7)
AUTHORS: Zacetskiy, G.F., and Snakhnovich, V.A., Engineers

TITLE: New Method to Study bolidification Processes

PERIODICAL: Liteynoye Proizvodatvo, 1959, Nr 4, pp 34-35 (USSR)

ABSTRACT: Under the methods to determine the peculiarities in the formation of the hard phase during the solidification process of castings, the authors special interest is directed to one method which is based on the introduction of radioactive isotopes into the fluid phase and their distribution in between the fluid and the hard phase. This method makes it possible to determine at any given moment the extent of the hard phase. It is also possible to trace a heterogeneous concentration. Although this method is not questioned in its value, it is applied only to a small extent as a result of the high costs connected with it. It was therefore decided (on a proposal of G.F. Zasetskiy)

therefore decided (on a proposal of d.f. Base vally) to introduce sulphur into the fluid phase in order to get a better knowledge of the solidification protoget a to get a better knowledge on the difference in the cess. This method is based on the difference in the

New Method to Study Solidification Processes SOV/128-59-4-15/27

diffusion of sulphur in the fluid and in the hard phase, and also on the fact, that crystal sulphur combines with iron. The amount of sulphur in the iron indicates at any given moment from the beginning of the solidification, how thick the layer of the hard phase is. The amount of sulphur brought into the fluid phase should exceed the normal percentage of sulphur in the metal by 5 to 10 times. To bring the sulphur in the fluid phase of the casting it is necessary to keep the riser part of the casting in a fluid state. This is done by heating the casting. This method makes it possible to trace the development of the different stages in the solidification process. Furthermore the separating surface of the fluid and the hard phase, the dendrite structure on this surface, the metal flow in the fluid phase, and the influence of that flow on the formation of the microstructure of the cast can be determined. Figure 1 shows the outline of the layer in the hard phase, figure 2 shows

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